

IN THE CLAIMS

Please cancel, without prejudice, Claims 1-30.

Please add, without prejudice, Claims 31-60.

1-30 (Cancelled)

31) (New) An audio recording and playback system comprising:

a high compression digital encoder configured to receive and encode an analog audio input and generate digital wave data corresponding to said analog audio input;

a sound recognition engine configured to generate text data from said analog audio input;

a memory sub-system selectively coupled to said high compression digital encoder and coupled to said sound recognition engine and configured to store said digital wave data and said text data in a synchronized manor; and

wherein said high compression digital encoder and said sound recognition engine are operable simultaneously to generate said digital wave data and to generate said text data in response to said analog audio input.

32) (New) The system as recited in Claim 31 further comprising a first switch coupled between said high compression digital encoder and said memory sub-system, and also between said sound recognition engine and said memory sub-

system, said first switch configured to couple one of said high compression digital encoder and said sound recognition engine to said memory sub-system and to simultaneously decouple the other one of said high compression digital encoder and said sound recognition engine from said memory sub-system.

33) (New) The system as recited in Claim 32 further comprising:

a digital decoder selectively coupled to said memory sub-system and configured to decode said digital wave data into decoded audio data;
a digital to analog converter coupled to said digital decoder for converting said decoded audio data into an analog signal; and
an audio output device coupled to said digital to analog converter and configured to render an audio output from said analog signal.

34) (New) The system as recited in Claim 33 further comprising an amplifier coupled to said digital to analog converter and said audio output device for amplifying said analog signal.

35) (New) The system as recited in Claim 33 further comprising a display coupled to said memory sub-system for displaying said text data.

36) (New) The system as recited in Claim 35 further comprising a second switch coupled between said digital decoder and said memory sub-system and

also between said graphical display and said memory sub-system, said second switch configured to couple one of said digital decoder and said graphical display to said memory sub-system and to simultaneously decouple the other one of said digital decoder and said graphical display from said memory sub-system.

37) (New) The system as recited in Claim 35 wherein said display comprises a liquid crystal display (LCD).

38) (New) The system as recited in Claim 31 wherein said system is portable and battery powered.

39) (New) The system as recited in Claim 31 wherein said memory sub-system comprises a semiconductor flash memory.

40) (New) The system as recited in Claim 31 wherein said sound recognition engine uses Hidden Markov Model (HMM) techniques to perform voice recognition.

41) (New) The system as recited in Claim 31 wherein said high compression digital encoder generates said digital wave data at a rate of two kilobits per second (2 kbit/s).

42) (New) The system as recited in Claim 32 wherein said first switch is controlled such that said text data and said digital wave data can be stored in said synchronized manor.

43) (New) The system as recited in Claim 31 further comprising an audio capturing device configured to receive said analog signal.

44) (New) A method for recording audio and playing audio comprising:

encoding an analog audio signal, at a high compression rate, to digital wave data;

performing sound recognition on said analog audio signal to generate text data;

storing said digital wave data and said text data on a portable electronic device; and

wherein said encoding and said sound recognition are performed concurrently such that said text data and said digital wave data can be stored in a synchronized manor.

45) (New) The method as recited in Claim 44 wherein said storing comprises alternately storing portions of said digital wave data and corresponding portions of said text data such that said digital wave data and said text data is synchronized.

- 46) (New) The method as recited in Claim 44 further comprising:
- retrieving said digital wave data;
- decoding said digital wave data into decoded audio data;
- converting said decoded audio data into an analog signal; and
- generating an audio output corresponding to said analog signal.
- 47) (New) The method as recited in Claim 46 further comprising amplifying said analog signal.
- 48) (New) The method as recited in Claim 46 further comprising:
- retrieving said text data from said portable electronic device; and
- displaying said text data on a display.
- 49) (New) The method as recited in Claim 48 further comprises alternately retrieving portions of said digital wave data from said portable electronic device and alternately retrieving portions of said text data corresponding to said portions of said digital wave data such that retrieving of said digital wave data and said text data is synchronized.
- 50) (New) The method as recited in Claim 48 wherein said displaying said text data comprises displaying said text data on a liquid crystal display (LCD).

51) (New) The method as recited in Claim 44 wherein said portable electronic device is battery powered.

52) (New) The method as recited in Claim 44 further comprises said storing said digital wave data and said text data comprises in a semiconductor flash memory.

53) (New) The method as recited in Claim 44 further comprising using Hidden Markov Model (HMM) techniques to perform voice recognition on said analog audio signal.

54) (New) The method as recited in Claim 44 wherein said encoding of said analog audio signal is performed at a rate of two kilobits per second (2 kbit/s).

55) (New) The method as recited in Claim 45 wherein said storing of said digital wave data and said text data is controlled based on said text data.

56) (New) The method as recited in Claim 44 further comprising accessing said analog audio signal.

57) (New) An electronic device comprising:

a signal capturing means for accessing a first analog signal;
an encoder coupled to said signal capturing means for encoding said first analog signal into digital data;
an analog signal pattern recognition means coupled to said signal capturing means for generating text data from said first analog signal; and
a storage means selectively coupled to said encoder and said analog signal pattern recognition means for storing said digital data and said text data, wherein said encoder and said analog signal pattern recognition means operate concurrently to generate said digital data and said text data in response to said accessing said first analog signal.

58) (New) The system as recited in Claim 57 further comprising a first switching means coupled between said encoding means and said storage means, and also between said analog signal pattern recognition means and said storage means, said first switch configured to couple one of said encoder means and said analog signal pattern recognition means to said storage means and to simultaneously decouple the other one of said encoder means and said analog signal pattern recognition means from said storage means.

59) (New) The system as recited in Claim 57 further comprising:
a decoder means selectively coupled to said storage means for decoding said digital data into decoded audio data;

a digital to analog converting means coupled to said decoding means for converting said decoded audio data into a second analog signal; and
an audio output means coupled to said digital to analog converting means for generating a sound output from said second analog signal.

60) (New) The system as recited in Claim 59 further comprising an amplifying means coupled to said digital to analog converting means for amplifying said second analog signal.

61) (New) The system as recited in Claim 59 further comprising a display means selectively coupled to said storage means for displaying said text data.

62) (New) The system as recited in Claim 61 further comprising a second switching means coupled between said decoding means and said storage means and also between said display means and said storage means, said second switch for coupling one of said decoding means and said display means to said storage means while simultaneously decoupling the other one of said decoding means and said display means from said storage means.